

CLAIMS

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1. (Withdrawn) An irrigation assembly comprising a main pipeline connected to a water supply, the pipeline being supported at intervals by mobile towers, and a plurality of collectors in fluid communication with the pipeline for receiving water from the pipeline, each collector having walls defining a water inlet and a water retaining cavity.

2. (Withdrawn) The irrigation assembly of claim 1 further comprising a plurality of drop tube assemblies attached to main pipeline and extending downwardly therefrom, the drop tube assemblies being in fluid communication with the main pipeline.

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3. (Withdrawn) The irrigation assembly of claim 2 wherein the drop tube assembly comprises a drop tube attached to the main pipeline on one end, a pressure regulator on the other end of the drop tube, a nozzle attached to the downstream end of the pressure regulator, and wherein the collector is attached to one of the drop tube or the nozzle.

4. (Withdrawn) The irrigation assembly of claim 1 wherein each collector further comprises a water outlet and a valve attached to the collector, the valve being movable between a closed position in which water is prevented from flowing out the outlet and an open position in which water is permitted to flow out the outlet.

5. (Withdrawn) The irrigation assembly of claim 1 wherein the collector is pivotally mounted to the irrigation assembly about a top end of the collector.

6. (Withdrawn) The irrigation assembly of claim 5 wherein the collector top end is mounted on a spindle

7. (Withdrawn) The irrigation assembly of claim 1 wherein the movement of the collectors over the ground defines a plurality of collector paths and further comprising a plurality of stationary targets positioned on the ground in at least one collector path.

8. (Withdrawn) The irrigation assembly of claim 7 wherein the target is a dish, each dish having an open upper end and a drain, the drain being positioned at least partially within the ground.

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9. (Withdrawn) The irrigation assembly of claim 8 wherein the drain has a plurality of holes therein.

10. (Withdrawn) The irrigation assembly of claim 7 wherein each target has a valve actuator.

11. (Withdrawn) The irrigation assembly of claim 7 wherein the target is a hole.

12. (Withdrawn) The irrigation assembly of claim 7 wherein the target is a channel.

13. (Withdrawn) The irrigation assembly of claim 7 wherein the target has a mesh.

14. (Withdrawn) The irrigation assembly of claim 7 wherein the target has aggregate therein.

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15. (Withdrawn) The irrigation assembly of claim 10 wherein each collector further comprises a water outlet and a valve attached to the collector, the valve being movable between a closed position in which water is prevented from flowing out the outlet and an open position in which water is permitted to flow out the outlet and wherein said valve actuator is engageable with said valve to move it to said open position to allow the water within the collector to flow into the dish.

16. (Withdrawn) The irrigation assembly of claim 8 wherein the dish forms a funnel.

17. (Withdrawn) The irrigation assembly of claim 8 wherein the dish holds approximately 3 gallons.

18. (Withdrawn) The irrigation assembly of claim 2 wherein a moisture probe assembly is mounted to the drop tube assembly to provide for testing the moisture level of the ground when the irrigation system is in use.

19. (Withdrawn) An irrigation assembly comprising a main pipeline connected to a water supply, the pipeline being supported at intervals by mobile towers, a plurality of drop tube assemblies downwardly extending from the main pipeline, a collector associated with each drop tube assembly and in fluid communication therewith for receiving water from the pipeline, each collector having walls defining a water inlet and a water retaining cavity, the movement of the collectors over the ground defining a plurality of collector paths and a plurality of stationary targets positioned on the ground with at least one target in each collector path for receiving water from the collector.

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20. (Withdrawn) The irrigation assembly of claim 19 wherein each collector further comprises a water outlet and a valve attached to the collector, the valve being movable between a closed position in which water is prevented from flowing out the outlet and an open position in which water is permitted to flow out the outlet.

21. (Withdrawn) The irrigation assembly of claim 20 wherein each collector has an open top portion, and a collector bottom portion has the valve located therein.

22. (Withdrawn) The irrigation assembly of claim 20 wherein the target is a dish, each dish having an open upper end with a valve actuator located thereon, said valve being engageable by the valve actuator to an opened position to allow the water within the collector to be received by the dish.

23. (Withdrawn) The irrigation assembly of claim 22 wherein each dish has a drain which is positioned at least partially within the ground.

24. (Withdrawn) The irrigation assembly of claim 23 wherein the dish drain has a plurality of holes located therein and positioned underground.

25. (Withdrawn) The irrigation assembly of claim 19 wherein a moisture probe assembly is mounted to the irrigation assembly.

B1 26. (Withdrawn) A movable irrigation assembly comprising a main pipeline supported at intervals by mobile towers, a plurality of drop tube assemblies connected to the main pipeline section, a plurality of stationary targets positioned on the ground, and a plurality of moisture probe assemblies being mounted to one of said irrigation assembly and said targets for selectively testing the soil moisture level during operation thereof.

Claims 27 - 32 (Cancelled).

33. (Currently Amended) An irrigation assembly comprising a main pipeline connected to a water supply, the pipeline being supported at intervals by mobile towers, a plurality of drop tube assemblies extending downwardly from the main pipeline, the movement of the drop tube assemblies over the ground defining paths, and a plurality of stationary troughs positioned at least partially above the surface of the ground and at least partially within

the paths for receiving water from the drop tube assemblies, each trough having at least one wall which is adapted to engage a surface of the ground.

34. (Currently amended) The irrigation assembly of claim 33 wherein each trough has a plurality of underground drains adapted for penetrating the ground, each drain being located at spaced locations along the trough and defining at least one opening therethrough for permitting water flow through the trough.

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35. (Original) The irrigation assembly of claim 34 wherein each underground drain has an inlet in fluid communication with the trough and at least one outlet located within the ground.

36. (Original) The irrigation assembly of claim 33 wherein the shape of each trough generally follows the path of a drop tube assembly.

37. (Withdrawn) The irrigation assembly of claim 33 wherein at least one trough has a bottom surface which is substantially planar with upwardly extending side edges.

38. (Original) The irrigation assembly of claim 33 wherein at least one trough is a pipe with a slot located in the top thereof.

39. (Original) The irrigation assembly of claim 38 wherein the slot is longitudinally positioned along the pipe.

40. (Original) The irrigation assembly of claim 38 wherein the trough further comprises a main pipe section and tributaries in fluid communication with the main pipe section, each tributary having at least one drain.

41. (Original) The irrigation assembly of claim 38 further comprising a weir mounted in the pipe.

B' 42. (Original) The irrigation assembly of claim 33 wherein the drop tube assembly further comprises a hose having an inlet being in fluid communication with the pipeline and an outlet which directs water into the trough.

43. (Original) The irrigation assembly of claim 42 wherein at least one trough is a pipe with a slot located in the top thereof.

44. (Original) The irrigation assembly of claim 33 further comprising selected one of a weir and a dam being positioned within the trough for controlling water flow therein.

45. (New) An irrigation assembly comprising a main pipeline connected to a water supply, the pipeline being supported at intervals by mobile towers, a plurality of drop

tube assemblies extending downwardly from the main pipeline, the movement of the drop tube assemblies over the ground defining paths, a plurality of water receiving receptacles adapted to engage the surface of the ground, each water receiving receptacle having at least one wall and defining a fluid passageway therethrough which permits water to flow from the water receiving receptacle into the ground.

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46. (New) The irrigation assembly of claim 45 wherein each water receiving receptacle further includes a plurality of underground drains which are adapted for penetrating the ground and which are in fluid communication with the passageway, each drain defining at least one opening therethrough for permitting water flow through the water receiving receptacle.

47. (New) The irrigation assembly of claim 46 wherein each underground drain has an inlet in fluid communication with the passageway and at least one outlet located within the ground.

48. (New) The irrigation assembly of claim 45 wherein at least one wall of the water receiving receptacle is substantially planar.

49. (New) The irrigation assembly of claim 45 wherein at least one wall of the water receiving receptacle is substantially circular with a slot located in the top thereof.



50. (New) The irrigation assembly of claim 45 wherein the water receiving  
receptacle forms a funnel.

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